

## RAIL DESIGN FOR HIGH BANDWIDTH ACTUATOR

### ABSTRACT OF THE DISCLOSURE

5           Longitudinal edges of an actuator arm are provided with stiffening elements in order to raise natural resonant frequencies of the arm so as to prevent resonance from occurring. The stiffening element is shaped and positioned so as to be able to individually "tune" the natural resonant frequency of a given bending mode without significantly affecting the natural frequencies in other bending modes.

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